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PTO/SB/08a (08-03)

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/801,514
Filing Date	March 16, 2004
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Zakiya N. Walker
Attorney Docket Number	WEAT/0116.D1
Customer No.	36735
Submission Date	January 11, 2005

Sheet 1

of 12

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
Z/W	A1	US-2,167,338	07-25-1939	Murcell	Cited in full
	A2	US-2,228,503	01-14-1941	Boyd, et al.	
	A3	US-2,370,832	03-06-1945	Baker	
	A4	US-2,379,800	07-03-1945	Hare	
	A5	US-2,414,719	01-21-1947	Cloud	
	A6	US-2,720,267	10-11-1955	Brown	
	A7	US-2,741,907	06-06-1997	Genender, et al.	
	A8	US-3,006,415	10-31-1961	Burns, et al.	
	A9	US-3,041,901	07-03-1962	Knights	
	A10	US-3,054,100	09-11-1962	Jones	
	A11	US-3,090,031	05-14-1963	Lord	
	A12	US-3,111,179	11-19-1963	Albers, et al.	
	A13	US-3,117,636	01-24-1964	Wilcox, et al.	
	A14	US-3,124,023	3-10-1964	Marquis, et al.	
	A15	US-3,131,769	05-05-1964	Rochemont	
	A16	US-3,193,116	07-06-1965	Kenneday, et al.	
	A17	US-3,419,079	12-31-1988	Current	
	A18	US-3,548,936	12-22-1970	Kilgore, et al.	

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		Number-Kind Code <sup>2</sup> (if known)				
Z/W	B1	CA 2 335 192	11-30-2001	Kozak		
	B2	DE 3 523 221	02-01-1987	Sydney		
	B3	DE 3 918 132	12-14-1989	Eriksson		
	B4	EP 0 474 481	03-11-1992	Moody		
	B5	EP 0 087 972	08-31-1983	Plunkett		

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\* Previously cited in PTO-1449 (06012004)

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Sheet 2

of 12

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Z/W	A19	US-3,552,507	01-05-1971	Brown	<div style="position: relative; height: 100px;"> <span style="position: absolute; top: 0; right: 0;">Sub</span> </div>
	A20	US-3,552,848	01-05-1971	Van Wagner	
↓	A21	US-3,566,505	03-02-1971	Martin	
	A22	US-3,602,302	08-31-1971	Kluth	
*	<del>A23</del>	<del>US-3,606,664</del>	<del>09-21-1971</del>	<del>Wagner</del>	
	A24	US-3,635,105	01-18-1972	Dickmann, et al.	
Z/W	A25	US-3,680,412	08-01-1972	Mayer, et al.	
	A26	US-3,691,825	09-19-1972	Dyer	
↓	A27	US-3,696,332	10-03-1972	Dickson, Jr., et al.	
	A28	US-3,776,320	12-04-1973	Brown	
	A29	US-3,776,991	12-04-1973	Marcus	
	A30	US-3,848,684	11-19-1974	West	
	A31	US-3,857,450	12-31-1974	Guler	
	A32	US-3,913,687	10-21-1975	Gyongyosi, et al.	
	A33	US-4,054,332	10-18-1977	Bryan, Jr.	
	A34	US-4,095,865	06-20-1978	Denison, et al.	
↓	A35	US-4,127,927	12-05-1978	Hauk, et al.	
	A36	US-4,194,383	03-25-1980	Huzyak	

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		Number-Kind Code <sup>2</sup> (if known)				
Z/W	B6	EP 0 162 000	11-21-1985	Hamilton		
	B7	EP 0 171 144	02-12-1986	Stringfellow, et al.		
↓	B8	EP 0 285 386	10-05-1988	Haney		
	B9	EP 0 426 123	05-08-1991	Reis, et al.		
↓	B10	EP 0 525 247	02-03-1993	Willis		

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Sheet 3

of 12

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Z.W.	A37	US-4,227,197	10-07-1980	Nimmo, et al.	class Figures appear Sub
	A38	US-4,241,878	12-30-1980	Underwood	
J.W.	A39	US-4,277,197	07-07-1981	Bingham	
	<del>A40</del>	<del>US-4,280,380</del>	<del>07-28-1981</del>	<del>Estigly</del>	
B.W.	A41	US-4,311,195	01-19-1982	Mullins, II	
	A42	US-4,392,534	07-12-1983	Miida	
J.W.	A43	US-4,407,378	10-04-1983	Thomas	
	A44	US-4,427,063	01-24-1984	Skinner	
J.W.	A45	US-4,437,363	03-20-1984	Haynes	
	A46	US-4,445,734	05-01-1984	Cunningham	
J.W.	A47	US-4,449,596	05-22-1984	Boyadjieff	
	A48	US-4,494,424	01-22-1985	Bates	
J.W.	A49	US-4,529,045	07-16-1985	Boyadjieff, et al.	
	A50	US-4,570,706	02-18-1986	Pugnet	
J.W.	<del>A51</del>	<del>US-4,593,125</del>	<del>06-03-1986</del>	<del>Skene</del>	
	A52	US-4,593,773	06-10-1986	Skele	
J.W.	A53	US-4,605,268	08-12-1986	Meador	
	A54	US-4,625,796	12-02-1986	Boyadjieff	

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B.W.	B11	EP 0 589 823	03-03-1994	Busink, et al.		
	B12	EP 0 659 975	06-28-1995	Nagaoka, et al.		
J.W.	B13	EP 0 790 386	08-20-1997	Newton, et al.		
	B14	EP 0 881 354	04-24-1998	Vercaemen, et al.		
J.W.	B15	EP 0 962 384	12-08-1999	Poldervaart		

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Z.W.

Date Considered

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Previously cited on PTO-1449 (06012004)

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First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Zakiya N. Walker
Attorney Docket Number	WEAT/0116.D1
Customer No.	36735
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Sheet 4

of 12

## **U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
Z.W.	A55	US-4,646,827	03-03-1987	Cobb	Class 5, Sub
	A56	US-4,649,777	03-17-1987	Buck	
	A57	US-4,667,752	05-26-1987	Berry, et al.	
	A58	US-4,676,312	06-30-1987	Mosing, et al.	
	A59	US-4,683,962	08-04-1987	True	
	A60	US-4,691,587	09-08-1987	Farrand, et al.	
	A61	US-4,709,599	12-01-1987	Buck	
	A62	US-4,709,766	12-01-1987	Boyadjieff	
	A63	US-4,738,146	04-19-1988	Vincent, et al.	
	A64	US-4,742,876	05-10-1988	Barthelemy, et al.	
Z.W.	A65	US-4,759,239	07-26-1988	Hamilton, et al.	
	A66	US-4,765,401	08-23-1988	Boyadjieff	
	A67	US-4,773,689	09-27-1988	Wolters	
	A68	US-4,775,009	10-04-1988	Wittrisch, et al.	
	A69	US-4,781,359	11-01-1988	Matus	
	A70	US-4,788,544	11-29-1988	Howard	
	A71	US-4,791,997	12-20-1988	Krasnov	
	A72	US-4,793,422	12-27-1988	Krasnov	

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		Number-Kind Code <sup>2</sup> (if known)				
Z.W.	B16	EP 1 256 691	11-13-2002	Hawkins, et al.		
	B17	FR 2 841 293	12-26-2003	Bouygues Offshore		
Z.W.	B18	GB 2 115 940	08-12-1983	Plaquin		
	B19	GB 2 224 481	09-05-1990	Voeten		
Z.W.	B20	GB 2 275 486	04-15-1993	Eiane, et al.		

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ZWN	A73	US-4,800,968	01-31-1989	Shaw, et al.	Class 3672 Sub
	A74	US-4,806,928	02-21-1989	Veneruso	
	A75	US-4,813,493	03-21-1989	Shaw, et al.	
	A76	US-4,836,064	06-06-1989	Slator	
	A77	US-4,867,236	09-19-1989	Haney, et al.	
	A78	US-4,878,546	11-07-1989	Shaw, et al.	
	A79	US-4,901,069	02-13-1990	Veneruso	
	A80	US-4,936,382	06-26-1990	Thomas	
	A81	US-4,962,579	10-16-1990	Moyer, et al.	
	A82	US-5,009,265	04-23-1991	Bailey, et al.	
ZWN	A83	US-5,036,927	08-06-1991	Willis	
	A84	US-5,141,063	08-25-1992	Quesenbury	
	A85	US-5,176,518	01-05-1993	Hordijk, et al.	
	A86	US-5,191,932	03-09-1993	Seefried, et al.	
	A87	US-5,224,540	07-06-1993	Streich, et al.	
	A88	US-5,233,742	08-10-1993	Gray, et al.	
	<del>A89</del>	<del>US-5,243,280</del>	<del>09-14-1993</del>	<del>Gray</del>	
	A90	US-5,251,709	10-12-1993	Richardson	

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		Number-Kind Code <sup>2</sup> (if known)				
ZWN	B21	GB 2 294 715	08-05-1996	Tibbitts		
	B22	GB 2 349 401	11-01-2000	Roberts, et al.		
	B23	GB 2 352 747	07-02-2001	Davis, et al.		
	B24	GB 2 357 530	06-27-2001	Schulze-Beckinghausen		
	B25	GB 2 372 765	09-04-2002	Head		

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BZW	A91	US-5,271,468	12-21-1993	Streich, et al.	class sub
	A92	US-5,305,839	04-26-1994	Kalsl, et al.	
	A93	US-5,332,043	07-26-1994	Ferguson	
	A94	US-5,351,767	10-04-1994	Stogner, et al.	
	A95	US-5,388,651	02-14-1995	Berry	
	A96	US-5,394,823	03-07-1995	Lenze	
	A97	US-5,433,279	07-18-1995	Tassari, et al.	
	A98	US-5,494,122	02-27-1996	Larsen, et al.	
	A99	US-5,501,286	03-26-1996	Berry	
	A100	US-5,503,234	04-02-1996	Clanton	
	A111	US-5,540,279	07-30-1996	Branch, et al.	
	A112	US-5,542,472	08-06-1996	Pringle, et al.	
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	A114	US-5,553,672	09-10-1996	Smith, Jr., et al.	
	A115	US-5,577,566	11-26-1996	Albright, et al.	
	A116	US-5,645,131	07-08-1997	Trevisani	
	A117	US-5,706,894	01-13-1998	Hawkins, III	
	A118	US-5,791,410	08-11-1998	Castille, et al.	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>o</sup>
		Number-Kind Code <sup>2</sup> (if known)				
BZW	B26	GB 709 365	05-19-1954	Standard Oil Development		
	B27	GB 716 781	10-13-1954	Standard Oil Development		
	B28	GB 881 358	11-01-1961	Kammerer, et al.		
	B29	GB 2 350 137	11-22-2000	Baugh, et al.		
	B30	RU 2 079 633	05-20-1997	Abdrakhmanov		

Examiner

Date Considered

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/801,514
Filing Date	March 16, 2004
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Zakiya N. Walker
Attorney Docket Number	WEAT/0116.D1
Customer No.	36735
Submission Date	January 11, 2005

Sheet 7

of 12

## **U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
Zakiya N. Walker	A119	US-5,803,191	09-08-1998	Mackintosh	class 3672 sub 3672
	A120	US-5,813,456	09-29-1998	Milner, et al.	
	A121	US-5,836,395	11-17-1998	Budde	
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	A133	US-6,142,545	11-07-2000	Penman, et al.	
	A134	US-6,161,617	12-19-2000	Gjedebo	
N	A135	US-6,173,777	01-16-2001	Mullins	
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		Number-Kind Code <sup>2</sup> (if known)				
Zakiya N. Walker	B31	WO 00/39429	07-06-2000	Pietras		
	B32	WO 00/39430	07-06-2000	Pietras		
	B33	WO 00/46484	08-10-2000	Van Buren, et al.		
	B34	WO 00/68879	11-09-2000	Hawkins, et al.		
	B35	WO 02/081863	10-17-2002	Simpson, et al.		

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/801,514
Filing Date	March 16, 2004
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Zakiya N. Walker
Attorney Docket Number	WEAT/0116.D1
Customer No.	36735
Submission Date	January 11, 2005

Sheet 8

of 12

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
ZNL	A137	US-6,223,823	05-01-2001	Head	class figures appear sub
	A138	US-6,227,587	05-08-2001	Terral	
	A139	US-6,275,938	08-14-2001	Bond, et al.	
	A140	US-6,290,432	09-18-2001	Exley, et al.	
	A141	US-6,305,469	10-23-2001	Coenen, et al.	
	A142	US-6,309,002	10-30-2001	Boulligny	
	A143	US-6,349,764	02-26-2002	Adams, et al.	
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		Number-Kind Code <sup>2</sup> (if known)				
ZNL	B36	WO 02/44601	06-06-2002	Appleford, et al.		
	B37	WO 03/087525	10-23-2003	Vincent, et al.		
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	B39	WO 98/18799	08-20-1998	Stokka		
	B40	WO 98/05844	02-12-1998	Stokka		

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Date Considered

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number		10/801,514	
				Filing Date		March 16, 2004	
				First Named Inventor		David M. Haugen	
				Group Art Unit		3672	
				Examiner Name		Zakiya N. Walker	
				Attorney Docket Number		WEAT/0116.D1	
Customer No.				36735			
Sheet	9	of	12	Submission Date		January 11, 2005	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
3W	A155	US-6,698,595	03-02-2004	Norell, et al.	Class 3672 sub
	A156	US-6,725,938	04-27-2004	Pietras	
	A157	US-6,742,596	06-01-2004	Haugen	
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	A171	US-2004/0069500	04-15-2004	Haugen	
A172	US-2004/0079533	04-29-2004	Buytaert, et al.		

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Number-Kind Code <sup>2</sup> (if known)				
3W ↓	B41	WO 98/11322	03-19-1998	Gjedebo		
	B42	WO 98/32948	07-30-1998	Pietras		
	B43	WO 99/35368	07-15-1999	Lohbeck, et al.		
	B44	WO 99/41485	08-19-1999	Pietras		
	B45	WO 99/58810	11-18-1999	Abrahamsen, et al.	/ /	

Examiner <span style="font-family: cursive;">Z. Walker</span>	Date Considered <span style="font-family: cursive;">3/15/05</span>
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/801,514
Filing Date	March 16, 2004
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Zakiya N. Walker
Attorney Docket Number	WEAT/0116.D1
Customer No.	36735
Submission Date	January 11, 2005

Sheet 10

of 12

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		Number-Kind Code <sup>2</sup> (if known)			
ZWN	A173	US-2004/0108142	06-10-2004	Vail, III	Class 3672 Sub
	A174	US-2004/0112646	06-17-2004	Vail	
	A175	US-2004/0118613	06-24-2004	Vail	
	A176	US-2004/0123984	07-01-2004	Vail	
	A177	US-2004/0124015	07-01-2004	Vaile, et al.	
	A178	US-2004/0129456	07-08-2004	Vail	
	A179	US-2004/0140128	07-22-2004	Vail	
	A180	US-2004/0173358	09-09-2004	Haugen	
	A181	US-2004/0216925	11-04-2004	Metcalf, et al.	
	A182	US-2004/0112646	06-17-2004	Vail	
ZWN	<del>A183</del>	<del>US-2004/0112646</del>	<del>06-17-2004</del>	<del>Vail</del>	
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	A185	US-			
	A188	US-			
	A187	US-			
	A188	US-			
	A189	US-			
	A190	US-			

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
ZWN	B46	FR 2741907	06-06-1997	Leighton		
	B47					
	B48					
	B49					
	B50					

Examiner

Date Considered

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\* Previously cited on PTO-1449 (060/2004)



Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/801,514
		Filing Date	March 16, 2004
		First Named Inventor	David M. Haugen
		Group Art Unit	3672
		Examiner Name	Zakiya N. Walker
		Attorney Docket Number	WEAT/0116.D1
		Customer No.	36735
Sheet 11	of 12	Submission Date	January 11, 2005

## NON PATENT LITERATURE DOCUMENTS

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Z.W.		DETLEF HAHN, FRIEDHELM MAKOHL, and LARRY WATKINS, Casing-While Drilling System Reduces Hole Collapse Risks, Offshore, Pages 54, 56, and 59, February 1998	
		YAKOV A. GELFGAT, MIKHAIL Y. GELFGAT and YURI S. LOPATIN, Retractable Drill Bit Technology – Drilling Without Pulling Out Drillpipe, Advanced Drilling Solutions Lessons From the FSU; June 2003; Vol. 2, pps. 351-464	
		TOMMY WARREN, SPE, BRUCE HOUTCHENS, SPE, GARRET MADELL, SPE, Directional Drilling With Casing, SPE/IADC 79914, Tesco Corporation, SPE/IADC Drilling Conference 2003	
		LaFleur Petroleum Services, Inc., "Autoseal Circulating Head," Engineering Manufacturing, 1992, 11 Pages	
		Valves Wellhead Equipment Safety Systems, W-K-M Division, ACF Industries, Catalog 80, 1980, 5 Pages	
		Canrig Top Drive Drilling Systems, Harts Petroleum Engineer International, February 1997, 2 Pages	
		The Original Portable Top Drive Drilling System, TESCO Drilling Technology, 1997	
		MIKE KILLALEA, Portable Top Drives: What's Driving The Market?, IADC, Drilling Contractor, September 1994, 4 Pages	
		500 or 650 ECIS Top Drive, Advanced Permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages	

Examiner		Date Considered	3/10/05
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/801,514
Filing Date	March 16, 2004
First Named Inventor	David M. Haugen
Group Art Unit	3672
Examiner Name	Zakiya N. Walker
Attorney Docket Number	WEAT/0116.D1
Customer No.	36735
Submission Date	January 11, 2005

Sheet 12

of 12

**NON PATENT LITERATURE DOCUMENTS**

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ZNW		500 or 650 HCIS Top Drive, Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages	
ZW		Product Information (Sections 1-10) CANRIG Drilling Technology, Ltd., September 18, 1996	

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